Instruction Manual



Portable Platform Scale

Models BPP1000 & BPP2000



Portable Platform Scale Models BPP1000 & BPP2000

11/06 50699 Issue 2

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Amendment Record

Portable Platform Scale Models BPP1000 & BPP2000

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Section 1: Introduction

Scope of This Manual

This manual provides instructions for the SCALE STORE'S Portable Platform Scale Models BPP1000 and BPP2000.

- Please read this manual carefully before assembling.
- Untrained personnel should not attempt to make any adjustments not specified in these instructions.

Modifications

Absolutely **NO PHYSICAL ALTERATIONS** (mounting holes, etc.) are to be made to this equipment.

Customer/Operator Responsibilities

It is the customer/operator's responsibility to maintain and protect the scale from accidental or malicious damage.

Repair Restrictions

The **SCALE STORE'S Portable Platform Scale** *must be repaired* following specific current warranty policies for this product.

Service Responsibility

The **SCALE STORE'S Portable Platform Scale** is factory calibrated, and supplied to the customer ready to be unpacked, assembled and placed into operation.

Operating Requirements

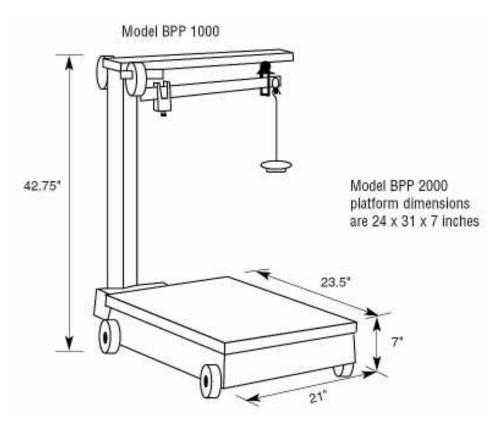
- The scale must be operated on a firm, level surface.
- A bubble level is provided for checking the level condition of the scale.

Section 1: Introduction

Description

The **SCALE STORE'S Portable Platform Scale** is a compact portable unit designed for light to medium operation. It requires no external power connections and will operate in a wide variety of environmental conditions.

Specifications



Specifications	BPP 1000	BP 2000	
Capacity	1000 lbs. (454.5 kg)	2000 lbs. (909 kg)	
Division Size	1/2 lb.	1 lb.	
Platform	Cast iron base	Cast iron base	
Platform Size	21" x 23½"	24" x 31"	
Overall Height	42¾"	423/4"	
Platform Height	About 7"	About 7"	
Woighing System	Cast Iron Lever	Cast Iron	
Weighing System	System	Lever System	

Section 2: Installation

Unpacking

- Check the packing materials for loose parts or hardware before disposal.
- Check that all parts are included using the packing list.
- Check for component damage that may have occurred during shipping
- The scale platform under-structure arrives fully assembled, with the levers in their proper positions.

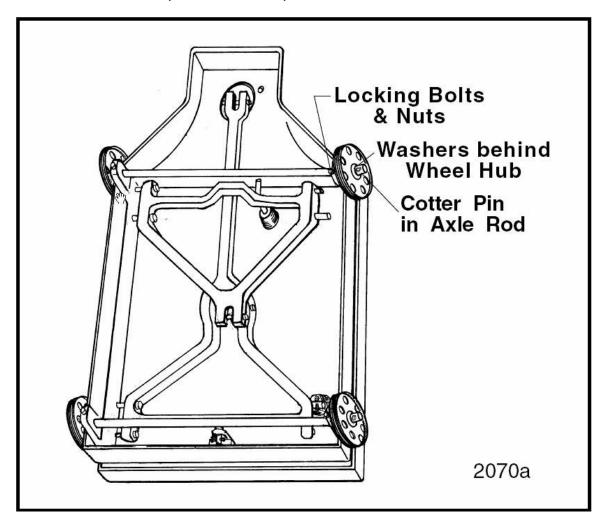
Tools Required for Assembly

- Needle nose pliers
- Flat head and Phillips head screwdrivers
- An adjustable wrench

Base Assembly

NOTE: The following descriptions refer to "**Key#**" (**#4**, etc.) to describe parts. Use the parts list and Key# in the list to identify all such parts.

1. Place the **Platform Sub Assembly** on the floor *upside-down*, preferably on 2x4 blocks to raise it up off the floor, if possible.



- 2. Remove the cotter pins and washers from one side of the **Axle Rod** (#19).
 - Axle assembly includes an affixed cotter pin (#17), a 5" wheel (#16), and then a flat washer (#18).
- 3. Insert the **Axle Rod Assembly** through the two **axle rod holes**, side-to-side.
- 4. Place one flat washer (#18), then a wheel (#16) over the other end.

Base Assembly, Continued

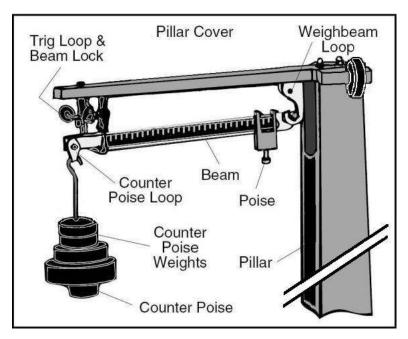
- 5. Insert a **cotter pin** (**#17**) through the Axle Rod.
 - Using needle nose pliers, bend back both haves of the cotter pin to secure the wheel assembly.
- 6. Repeat steps two through four (2-4) for the second axle.
- 7. Center the axles in the base, and then insert the four **locking screws** (#15) into each of the tapped holes in the bottom of the base.
 - Located directly under the axle holes
- 8. Tighten the locking screws, and then secure the **Lock Nuts** (#14).
- 9. Turn the platform over so it sets on the wheels.



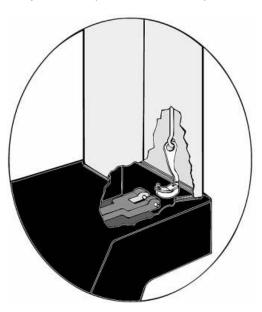


After inserting the four Cotter Pins, center the axles, tighten the Locking Screws, and then secure the Lock Nuts.

Pillar and Beam Assembly



- 1. Thread the two (2) **Pillar Support Rods** (#1) into the tapped holes provided in the base.
 - The end with the longer thread should fit into the platform (about 1/2 inch).
- 2. Place the **Pillar** (**#2**) down over the support rods with the pillar cut-outs facing the right and left of the platform.
- 3. Insert the **Steelyard Rod** (**#35**) down through the pillar.
 - The bent hook on top; the loose Swivel Hook on the bottom.
 - The hook opening should be toward the platform when properly placed.
 - DO NOT remove the washers from the Steelyard Rod.
- 4. Hook the **Steelyard Rod** (#35) to the **Long Lever Tip Pivot** (#34).
 - Temporarily, hook the upper end of the Steelyard Rod on the pillar cut-out.



Hook the Steelyard Rod to the Long Lever Tip Pivot.

Pillar and Beam Assembly, Continued

- 5. Place the cast iron **Beam Support** (**#39**) over the **Steelyard Rod** with the hook facing to the right (when facing the scale platform).
- 6. Insert the **Beam Cap** (#45) onto the pillar rods.
 - The long side will be to the right.
- 7. Place **Washers** over the pillar rods, and then screw on the two (2) **Acorn Nuts** (#44).
 - Hand-tighten only, at this time.
- 8. On the butt end on **Beam Assembly**, hook the bottom **Load Loop** to the **Steelyard Rod**.
 - See image to the right.
- Pulling the Beam up, hook the top Fulcrum Loop (of the Beam Assembly) to the hook on the Beam Support (#39).
 - The beam should hang loosely from the two hooks.
- 10. Insert the **Beam Lock** (#43) onto the front end of the **Beam Assembly**.
 - See image to the right.
- 11. Slide the **Beam Lock** (#43) over the **Beam** and align it with the two (2) holes in the **Beam Cap** (#45).
- 12. Fasten the **Beam Lock** to the **Beam Cap** with the two (2) **Hex Bolts** (#46).
 - The handle faces the scale platform.
- 13. Hang the Counterpoise Assembly (#54) from the Beam Tip Loop.
- 14. Set the **Sliding Poise** (**#52**) to **zero** and hand tighten the screw on its under-side.
 - Check that the beam is straight and does not touch the sides of the Beam Lock.
 - Shift the Cap if necessary to straighten, and then tighten the acorn nuts securely with an adjustable wrench.



Hook the bottom Load Loop to the Steelyard Rod. Pulling the Beam up, hook the top Fulcrum Loop.



Insert the Beam Lock onto the end of the Beam Assembly, then align the Beam Lock under the two holes in the Beam Cap. Fasten this assembly with the two Hex Bolts.

Zeroing the Beam

Note: Check that the weighing platform "floats" on the levers' pivots and bearings and does not bind or set to one side. The platform should return to a centered position if moved to any position then released.

- 1. Unlock the **Beam Lock Loop** to allow the beam to balance.
 - The beam should move up and down freely coming to rest in the center of the trig lock opening.
- 2. Balance the beam by adjusting the balance ball at the butt end of the beam, using a screwdriver.
 - Turning the screw CW (Clock-Wise) raises the beam
 - Turning the screw CCW (Counter Clock-Wise) lowers the beam.

The scale is now assembled.

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Troubleshooting

If the beam will not balance using the balance ball, check the following:

- Is the poise is at 0, and is the poise screw is snug?
- Is the platform free and 'floating'?
- Is the beam load rod connected properly on both ends?
- Is something under the platform inhibiting the levers (floor debris)?
- Are there any weights on the counterpoise hanger, and is it on the Tip Loop?
- Is the beam hanging from the middle loop?
- Is the **Beam Lock Loop** (#43) open?

Apply a slight pressure to the scale platform and see if the beam tip rises.

- If it does, continue onto balancing step.
- If it does not, recheck mechanical assembly.

If the scale beam **still** does not balance (beam rises with slight pressure), perform the following:

- 1. Use a screwdriver to 'center' the balance ball at the butt end of the beam.
- 2. If the beam is up, apply small amounts of weight (BBs) to the top of the **Counterpoise**.
- 3. If the beam is low, remove the **Counterpoise hanger** (**#54**), loosen the hanger rod by turning and holding the bottom nut, and remove a small amount of lead shot.
- 4. Add or remove small amounts of weight until beam balances.
- 5. Secure the counterpoise hanger with added or removed weight.

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Section 3: Parts

Parts List

Key#	BPP1000 Product #	BPP2000 Product #	Description	
	55652		BPP1000 Series, 24"x21", 1K x .5, NTEP, Portable Beam	
		55789*	BPP2000 Series, 24"x21", 1K x 1, NTEP, Portable Beam	
1	71622	78796*	Set of Pillar Rods	
2	58933	77228*	Pillar	
3	95847		Cover Assembly, Platform	
4	95848		Frame	
5	95855		Cotter Pin	
6	58937		Bearing, Platform	
7	95856		Screw, Phillips Head	
8	95857		Screw, Allen	
9	95858		Level, Bubble	
10	95859		Pin, Corner Loop	
11	71623		Loop, Corner	
12	71624		Bearing, Corner Loop	
13	71625		Cotter Pin	
11, 12, 13	58938		Corner Loop Assembly	
14	95867		Nut, Hex	
15	95868		Bolt, Hex Head	
16	95869		Wheel, 5" Diamter	
17	71628		Cotter Pin	
18	71629		Washer, Flat	
19	71630		Axle	
24	95861		Pivot	
25	72948		Lever Assembly, Short	
26	58939		Center Connection Assembly (26, 27, 28, 29, 32)	
27			Clip, Center Connection	
28			Link, Center Connection	
29			Cotter Pin	
30	95862		Pivot	
31	95863		Pivot	
32		75712*	Upper Bearing, Center Connection	
33	72947	75713*	Long Lever Assembly	
34	95864		Long Lever Tip Pivot	
35	58934		Steelyard Rod Assembly	

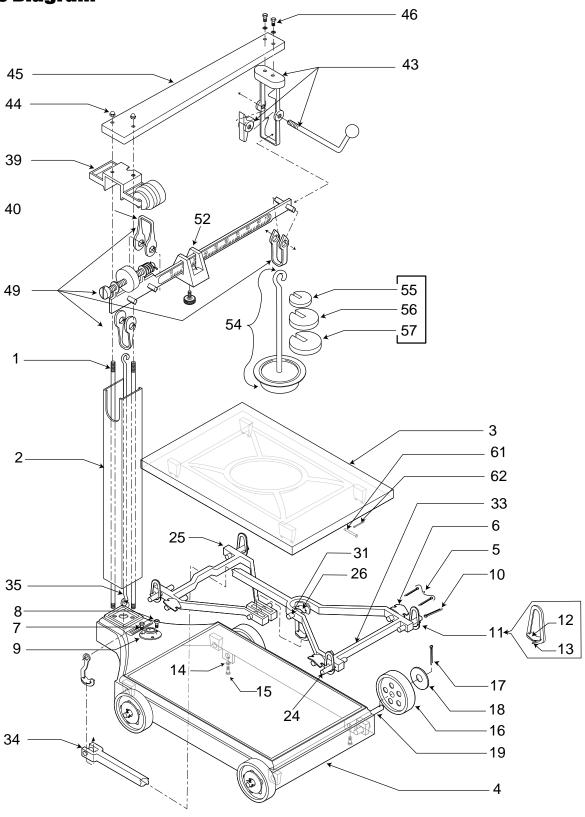
XXXXX* Indicates a part number for the BPP2000.

Parts List, Continued

Key#	BPP1000 Product #	BPP2000 Product #	Description	
36, 37, 38	71594		Loop Assembly	
37			Cotter Pin	
38			Bearing	
39	95839	77229*	Support Beam	
40	71591		Loop	
40, 41, 42	71595		Loop Assembly	
41			Cotter Pin	
42			Bearing	
43	95840		Lock Assembly, Beam	
44	71592		Acorn Nut (2)	
45	95841	77227*	Cap, Beam	
46	71593		Hex Bolt (2)	
47			Screw, Balance Weight Adjustment	
48			Weight, Balance	
47, 48, 49	95843		Beam Assembly (100 x 0.5 lb)	
	55017		BPP1000 1K x 0.5 NON-NTEP Beam	
		71633*	BPP2000 2000 lb. Portable Beam	
		75711*	BPP2000 BPP2000 Beam Insert	
50	71632		Pivot	
51			Pivot	
51, 52, 53	95842		Poise Assembly	
53			Loop	
54, 58, 59,			·	
60	58935		Counterpoise Stem Assembly	
55, 56, 57		71598*	Set of SE Weights	
55, 56, 57		74392*	Set of Metric Weights	
55	58936		1 lb. Counterpoise Weights	
56	95853		2 lb. Counterpoise Weights	
57	95854		4 lb. Counterpoise Weights	
58			Top, CounterPoise	
59			Cup, Counterpoise	
60			Nut, Hex	
61	95865		Pin	
62	95866		Cotter Pin	
N/S	71586		Set of Corner Loops	
N/S	71587		Set of Bearing Corner Loops	

XXXXX* Indicates a part number for the BPP2000.

Parts Diagram





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